AMENDMENTS TO THE CLAIMS

Kindly amend claim 3 as follows.

- 1. (Original) A method of treating, reducing, or preventing pain in a mammal, said method comprising administering to said mammal a nucleic acid encoding a constitutively active mu opioid receptor in an amount sufficient to treat, reduce, or prevent pain.
- 2. (Original) The method of claim 1, wherein said mu opioid receptor has an single point mutation in transmembrane domain 3.
- 3. (Currently amended) The method of claim 2, wherein said single point mutation is an Asn to Ala point mutation at amino acid 150 of SEQ ID NO: 1 or the human equivalent SEQ ID NO: 78.
 - 4. (Original) The method of claim 1, wherein said pain is back pain.
- 5. (Original) The method of claim 1, wherein the expression of said constitutively active mu opioid receptor is under the control of an inducible promoter.
- 6. (Original) The method of claim 1, wherein the expression of said constitutively active mu opioid receptor is under the control of a constitutive promoter.
- 7. (Original) The method of claim 1, wherein the expression of said constitutively active mu opioid receptor is under the control of a tissue specific promoter.
- 8. (Original) The method of claim 1, wherein said nucleic acid encoding said constitutively active mu opioid receptor is administered as part of a viral vector.

- 9. (Original) The method of claim 1, wherein said nucleic acid encoding said constitutively active mu opioid receptor is administered as part of a nonviral vector.
- 10. (Original) The method of claim 8 or 9, wherein said viral or nonviral vector includes cell specific ligands useful for targeting specific cell-types in a mammal.
- 11. (Original) The method of claim 8, wherein said viral vector is a retroviral or adenoviral vector.
- 12. (Original) The method of claim 8, wherein said viral vector is an adeno-associated viral vector.
- 13. (Original) A method of treating, reducing, or preventing pain in a mammal, said method comprising administering to said mammal a nucleic acid encoding a hypersensitive mu opioid receptor in an amount sufficient to treat, reduce, or prevent pain.
- 14. (Original) A therapeutic composition for treating, reducing, or preventing pain, comprising a nucleic acid encoding a constitutively active mu opioid receptor admixed with a pharmaceutically acceptable carrier substance, said nucleic acid being present in said composition in an amount equivalent to a unit dose suitable for administration to a mammal suffering from pain.
- 15. (Original) The therapeutic composition of claim 14, wherein said mu opioid receptor has a single point mutation in transmembrane domain 3.
 - 16. (Original) The therapeutic composition of claim 15, wherein said single point

mutation is a Asn to Ala point mutation at amino acid 150 of SEQ ID NO: 1.

- 17. (Original) The therapeutic composition of claim 14, wherein the expression of said constitutively active mu opioid receptor is under the control of an inducible promoter.
- 18. (Original) The therapeutic composition of claim 14, wherein the expression of said constitutively active mu opioid receptor is under the control of a constitutive promoter.
- 19. (Original) The therapeutic composition of claim 14, wherein the expression of said constitutively active mu opioid receptor is under the control of a tissue specific promoter.
- 20. (Original) The therapeutic composition of claim 14, wherein said nucleic acid encoding said constitutively active mu opioid receptor is administered as part of a viral vector.
- 21. (Original) The therapeutic composition of claim 20, wherein said viral vector is an adeno-associated viral vector.
- 22. (Original) The therapeutic composition of claim 14, wherein said nucleic acid encoding said constitutively active mu opioid receptor is administered as part of a nonviral vector.
- 23. (Original) The therapeutic composition of claim 20 or 22, wherein said viral or nonviral vector includes cell specific ligands useful for targeting specific cell-types in a mammal.

- 24. (Original) The therapeutic composition of claim 20, wherein said viral vector is a retroviral vector or adenoviral vector.
- 25. (Original) A therapeutic composition for treating, reducing, or preventing pain, comprising a nucleic acid encoding a hypersensitive mu opioid receptor admixed with a pharmaceutically acceptable carrier substance, said nucleic acid being present in said composition in an amount equivalent to a unit dose suitable for administration to a mammal suffering from pain.
- 26. (Original) A kit for the administration of a nucleic acid encoding a constitutively active mu opioid receptor to a mammal, comprising a container means containing a nucleic acid encoding a constitutively active mu opioid receptor in a pharmaceutically acceptable carrier.
- 27. (Original) The kit of claim 26, wherein said mu opioid receptor has a single point mutation in transmembrane domain 3.
- 28. (Original) The kit of claim 27, wherein said single point mutation is a Asn to Ala point mutation at amino acid 150 of SEQ ID NO: 1.
- 29. (Original) The kit of claim 26, wherein said nucleic acid is administered as part of a viral vector.
- 30. (Original) The kit of claim 29, wherein said nucleic acid is administered as part of an adeno-associated viral vector.
 - 31. (Original) The kit of claim 26, wherein said nucleic acid is administered as

part of a nonviral vector.

- 32. (Original) The kit of claim 29 or 31, wherein said viral or nonviral vector includes cell specific ligands useful for targeting specific cell-types in a mammal.
- 33. (Original) The kit of claim 29, wherein said viral vector is a retroviral vector or adenoviral vector.